

CLAIMS:

1 1. A method for automatically restoring logon connectivity in a network system
2 comprising the steps of:

3 establishing a first connection between a client and an Internet gateway;
4 checking status of said first connection by issuing a first request to said
5 Internet gateway to access a web server utilizing a protocol blocked under a logged
6 off status;
7 determining whether said web server is accessed from said first request; and
8 automatically attempting to establish a second connection to said Internet
9 gateway if said web server was not accessed from said first request.

1 2. The method as recited in claim 1, wherein if said web server was accessed
2 from said first request then the method further comprises the steps of:

3 waiting for a first period of time; and
4 checking status of said first connection by issuing a second request to said
5 Internet gateway to access said web server utilizing said protocol blocked under said
6 logged off status.

1 3. The method as recited in claim 2, wherein upon said attempting to establish a
2 second connection to said Internet service the method further comprises the step of:

3 waiting for a second period of time, wherein said second period of time is less
4 than said first period of time; and

5 checking status of said attempted second connection by issuing a third request
6 to said Internet gateway to access said web server utilizing said protocol blocked
7 under said logged off status

1 4. The method as recited in claim 1, wherein said first connection is established
2 by a first logon procedure.

1 5. The method as recited in claim 4, wherein said step of attempting to establish
2 said second connection comprises the steps of:

3 terminating said first logon procedure; and
4 executing a second logon procedure.

1 6. The method as recited in claim 5 further comprising the step of:
2 waiting for a first period of time.

1 7. The method as recited in claim 6 further comprising the step of:
2 checking status of said attempted second connection by issuing a second
3 request to said Internet gateway to access said web server utilizing said protocol
4 blocked under said logged off status.

1 8. The method as recited in claim 7 further comprising the step of:
2 determining whether said web server is accessed from said second request.

1 9. The method as recited in claim 8, wherein if said web server is accessed from
2 said second request then the method further comprises the steps of:

3 waiting for a second period of time, wherein said first period of time is less
4 than said second period of time; and

5 checking status of said attempted second connection by issuing a third request
6 to said Internet gateway to access said web server utilizing said protocol blocked
7 under said logged off status.

1 10. The method as recited in claim 8, wherein if said web server was not accessed
2 from said second request then the method further comprises the steps of:

3 automatically attempting to establish a third connection to said Internet
4 gateway; and

5 waiting said first period of time.

1 11. The method as recited in claim 1, wherein said protocol is a HyperText
2 Transport Protocol.

1 12. The method as recited in claim 1, wherein said protocol is a file transfer
2 protocol.

1 13. The method as recited in claim 1, wherein said protocol is a telnet protocol.

1 14. A system, comprising:
2 a web server configured to provide access to a web page;
3 one or more clients coupled to said web server by way of an Internet gateway;
4 and
5 a router coupled to said one or more clients configured to forward packets of
6 information from said one or more clients to said Internet gateway, wherein said
7 router comprises:
8 a processor;
9 a memory unit storing a computer program operable for automatically
10 restoring logon connectivity in a network system;
11 an input mechanism;
12 an output mechanism;
13 a bus system coupling the processor to the memory unit, input
14 mechanism, and output mechanism, wherein the computer program comprises the
15 programming steps of:
16 establishing a first connection between said one or more
17 clients and said Internet gateway;
18 checking status of said first connection by issuing a first
19 request to said Internet gateway to access a web server utilizing a protocol blocked
20 under a logged off status;
21 determining whether said web server is accessed from said first
22 request; and
23 automatically attempting to establish a second connection
24 between said one or more clients and said Internet gateway if said web server was not
25 accessed from said first request.

1 15. The system as recited in claim 14, wherein if said web server was accessed
2 from said first request then the computer program further comprises the programming
3 steps of:

4 waiting for a first period of time; and

5 checking status of said first connection by issuing a second request to said
6 Internet gateway to access said web server utilizing said protocol blocked under said
7 logged off status.

1 16. The system as recited in claim 15, wherein upon said attempting to establish a
2 second connection to said Internet service the computer program further comprises
3 the programming steps of:

4 waiting for a second period of time, wherein said second period of time is less
5 than said first period of time; and

6 checking status of said attempted second connection by issuing a third request
7 to said Internet gateway to access said web server utilizing said protocol blocked
8 under said logged off status

1 17. The system as recited in claim 14, wherein said first connection is established
2 by a first logon procedure.

1 18. The system as recited in claim 17, wherein said step of attempting to establish
2 said second connection comprises the programming steps of:

3 terminating said first logon procedure; and

4 executing a second logon procedure.

1 19. The system as recited in claim 18, wherein the computer program further
2 comprises the programming step of:

3 waiting for a first period of time.

1 20. The system as recited in claim 19, wherein the computer program further
2 comprises the programming step of:

3 checking status of said attempted second connection by issuing a second
4 request to said Internet gateway to access said web server utilizing said protocol
5 blocked under said logged off status.

1 21. The system as recited in claim 20, wherein the computer program further
2 comprises the programming step of:

3 determining whether said web server is accessed from said second request.

1 22. The system as recited in claim 21, wherein if said web server is accessed from
2 said second request then the computer program further comprises the programming
3 steps of:

4 waiting for a second period of time, wherein said first period of time is less
5 than said second period of time; and

6 checking status of said attempted second connection by issuing a third request
7 to said Internet gateway to access said web server utilizing said protocol blocked
8 under said logged off status.

1 23. The system as recited in claim 21, wherein if said web server was not
2 accessed from said second request then the computer program further comprises the
3 programming steps of:

4 automatically attempting to establish a third connection to said Internet
5 gateway; and

6 waiting said first period of time.

1 24. The system as recited in claim 14, wherein said protocol is a HyperText
2 Transport Protocol.

1 25. The system as recited in claim 14, wherein said protocol is a file transfer
2 protocol.

1 26. The system as recited in claim 14, wherein said protocol is a telnet protocol.

1 27. A system, comprising:
2 a web server configured to provide access to a web page; and
3 a client coupled to said web server by way of an Internet gateway, wherein
4 said client comprises:
5 a processor;
6 a memory unit storing a computer program operable for automatically
7 restoring logon connectivity in a network system;
8 an input mechanism;
9 an output mechanism;
10 a bus system coupling the processor to the memory unit, input
11 mechanism, and output mechanism, wherein the computer comprises the
12 programming steps of:
13 establishing a first connection between said client and said
14 Internet gateway;
15 checking status of said first connection by issuing a first
16 request to said Internet gateway to access a web server utilizing a protocol blocked
17 under a logged off status;
18 determining whether said web server is accessed from said first
19 request; and
20 automatically attempting to establish a second connection
21 between said client and said Internet gateway if said web server was not accessed
22 from said first request.

1 28. The system as recited in claim 27, wherein if said web server was accessed
2 from said first request then the computer program further comprises the programming
3 steps of:

4 waiting for a first period of time; and

5 checking status of said first connection by issuing a second request to said
6 Internet gateway to access said web server utilizing said protocol blocked under said
7 logged off status.

1 29. The system as recited in claim 28, wherein upon said attempting to establish a
2 second connection to said Internet service the computer program further comprises
3 the programming steps of:

4 waiting for a second period of time, wherein said second period of time is less
5 than said first period of time; and

6 checking status of said attempted second connection by issuing a third request
7 to said Internet gateway to access said web server utilizing said protocol blocked
8 under said logged off status

1 30. The system as recited in claim 27, wherein said first connection is established
2 by a first logon procedure.

1 31. The system as recited in claim 30, wherein said step of attempting to establish
2 said second connection comprises the programming steps of:

3 terminating said first logon procedure; and

4 executing a second logon procedure.

1 32. The system as recited in claim 31, wherein the computer program further
2 comprises the programming step of:

3 waiting for a first period of time.

1 33. The system as recited in claim 32, wherein the computer program further
2 comprises the programming step of:

3 checking status of said attempted second connection by issuing a second
4 request to said Internet gateway to access said web server utilizing said protocol
5 blocked under said logged off status.

1 34. The system as recited in claim 33, wherein the computer program further
2 comprises the programming step of:

3 determining whether said web server is accessed from said second request.

1 35. The system as recited in claim 34, wherein if said web server is accessed from
2 said second request then the computer program further comprises the programming
3 steps of:

4 waiting for a second period of time, wherein said first period of time is less
5 than said second period of time; and

6 checking status of said attempted second connection by issuing a third request
7 to said Internet gateway to access said web server utilizing said protocol blocked
8 under said logged off status.

1 36. The system as recited in claim 34, wherein if said web server was not
2 accessed from said second request then the computer program further comprises the
3 programming steps of:

4 automatically attempting to establish a third connection to said Internet
5 gateway; and

6 waiting said first period of time.

1 37. The system as recited in claim 27, wherein said protocol is a HyperText
2 Transport Protocol.

1 38. The system as recited in claim 27, wherein said protocol is a file transfer
2 protocol.

1 39. The system as recited in claim 27, wherein said protocol is a telnet protocol.

1 40. A computer program product having a computer readable medium having
2 computer program logic recorded thereon for automatically restoring logon
3 connectivity, comprising:

4 programming operable for establishing a first connection between a client and
5 an Internet gateway;

6 programming operable for checking status of said first connection by issuing a
7 first request to said Internet gateway to access a web server utilizing a protocol
8 blocked under a logged off status;

9 programming operable for determining whether said web server is accessed
10 from said first request; and

11 programming operable for automatically attempting to establish a second
12 connection to said Internet gateway if said web server was not accessed from said
13 first request.

1 41. The computer program product as recited in claim 40, wherein if said web
2 server was accessed from said first request then the computer program product further
3 comprises:

4 programming operable for waiting for a first period of time; and

5 programming operable for checking status of said first connection by issuing a
6 second request to said Internet gateway to access said web server utilizing said
7 protocol blocked under said logged off status.

1 42. The computer program product as recited in claim 41, wherein upon said
2 attempting to establish a second connection to said Internet service the computer
3 program product further comprises:

4 programming operable for waiting for a second period of time, wherein said
5 second period of time is less than said first period of time; and

6 programming operable for checking status of said attempted second
7 connection by issuing a third request to said Internet gateway to access said web
8 server utilizing said protocol blocked under said logged off status

1 43. The computer program product as recited in claim 40, wherein said first
2 connection is established by a first logon procedure.

1 44. The computer program product as recited in claim 43, wherein said
2 programming step of attempting to establish said second connection comprises the
3 programming steps of:

4 terminating said first logon procedure; and
5 executing a second logon procedure.

1 45. The computer program product as recited in claim 44 further comprising:
2 programming operable for waiting for a first period of time.

1 46. The computer program product as recited in claim 45 further comprising:
2 programming operable for checking status of said attempted second
3 connection by issuing a second request to said Internet gateway to access said web
4 server utilizing said protocol blocked under said logged off status.

1 47. The computer program product as recited in claim 46 further comprising:
2 programming operable for determining whether said web server is accessed
3 from said second request.

1 48. The computer program product as recited in claim 47, wherein if said web
2 server is accessed from said second request then the computer program product
3 further comprises:

4 programming operable for waiting for a second period of time, wherein said
5 first period of time is less than said second period of time; and

6 programming operable for checking status of said attempted second
7 connection by issuing a third request to said Internet gateway to access said web
8 server utilizing said protocol blocked under said logged off status.

1 49. The computer program product as recited in claim 47, wherein if said web
2 server was not accessed from said second request then the computer program product
3 further comprises:

4 programming operable for automatically attempting to establish a third
5 connection to said Internet gateway; and

6 programming operable for waiting said first period of time.

1 50. The computer program product as recited in claim 40, wherein said protocol is
2 a HyperText Transport Protocol.

1 51. The computer program product as recited in claim 40, wherein said protocol is
2 a file transfer protocol.

1 52. The computer program product as recited in claim 40, wherein said protocol is
2 a telnet protocol.